BRUHAT BANGALORE MAHANAGARA PALIKE

KODIGEHALLI SUBDIVISION

WARD NO.07, Byatarayanapura

Name of work: Improvements to drains of 4th main road of pampa extension to 5th main road of pampa extension in ward no.07, Byatarayanapura

Est Cost : 99.90 LAKHS

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Estimate Cost: 99.90 Lakhs

S.N	ESCRIPTION OF WOR	Unit	N	L	B	D	QTY	RATE	AMOUNT
1	2	3	4	5	6	7	8	9	10
1	Removing and refixing stone slabs of drains and pointing in CM(1:3), Pg No.27, Item No.5.33								
	Covering slab								
	4th main road		2	250.00	0.75		375.00		
	5th main road		2	250.00	0.75		375.00		
	main road		2	165.00	0.75		247.50		
	amruthnagara C sector								
	main road 1		2	163.00	0.75		244.50		
	5th cross		2	150.00	0.75		225.00		
	5th A cross		2	25.00	0.75		37.50		
					TOTAL		1504.50		
	Deduct 23% damage slab						346.04		
					TOTAL		**1158.47**		
	Bs slab drain								
	4th main road		2	250.00	1.35		675.00		
	5th main road		2	250.00	1.35		675.00		
	main road		2	165.00	1.35		445.50		
	amruthnagara C sector								
	main road 1		2	163.00	1.35		440.10		
	5th cross		2	150.00	1.35		405.00		
	5th A cross		2	25.00	1.35		67.50		
					TOTAL		2708.10		
	only damage portion(40%)						1083.24		
					TOTAL		**2241.71**	111.30	249502.00
	Basic Rate:	sqm	**105.00**						
	Area Weightage @ 6%		6.30						
	Total		**111.30**						
2	KSRRB 300-1. Earthwork excavation by manual means in rodinary soil involving an average horizontal throw upto 2 m and an average lift upto 1.5m, excavated surafce levelled and sides neatly dressed, the disposed earth to be levelled neatly after breaking clods complete as per specifications.. Pg No.143.Item No.19.1)								
	Desilting of existing drains								
	4th main road		2	250.00	0.50	0.50	125.00		
	5th main road		2	250.00	0.50	0.50	125.00		
	main road		2	165.00	0.50	0.50	82.50		
	amruthnagara C sector								
	main road 1		2	163.00	0.50	0.50	81.50		
	5th cross		2	150.00	0.50	0.50	75.00		
	5th A cross		2	25.00	0.50	0.50	12.50		
	Culverts		10	6.00	1.50	0.90	81.00		
	For new drains								

	5th B cross		2	25.00	0.60	0.60	18.00		
	5th C cross		2	25.00	0.60	0.60	18.00		
	For Pit		16	3.14*0.8*0.8		3.00	24.12		
	(3.14x0.6x0.)/4 x 3.0			4					
	Overburden		12	20.0	1.0	1.0	230.28		
					TOTAL		**872.90**	137.80	120284.96
	Basic Rate:	cum	**130.00**						
	Area Weightage @ 6%		7.80						
	Total		**137.80**						
3	Providing and laying in position plain cement concrete of nominal mix 1:3:6 with OPC @220 Kgs, with crushed 40mm and down size graded granite metal coarse aggregates @0.89 cum and fine aggregates @0.46cum, in foundation mechanically mixed, placed in foundation and comapcted by vibration including curing for 14 days including cost of all materials labour, HOM of machinery, curing, form works, scaffolding and centering complete as per specification . (Pg.No.22, It.27.18)								
	Culverts		10	6.00	1.50	0.15	13.50		
	Below kerb								
	4th main road		2	250.00	0.45	0.10	22.50		
	5th main road		2	250.00	0.45	0.10	22.50		
	main road		2	165.00	0.45	0.10	148.50		
	amruthnagara C sector								
	main road 1		2	163.00	0.45	0.10	14.67		
	5th cross		2	150.00	0.45	0.10	13.50		
	5th A cross		2	25.00	0.45	0.10	2.25		
	For new drains								
	5th B cross		2	25.00	0.45	0.10	22.50		
	5th C cross		2	25.00	0.45	0.10	22.50		
					TOTAL		**282.42**	5421.90	1531253.00
	Basic Rate:	cum	5115.00						
	Area Weightage @ 6%		306.90						
	Total		5421.90						
4	Providing and laying Plain/Reinforcement cement concrete M20 with OPC @ 320 kgs with 20mm and down size graded granite metal coarse aggregates @0.69 cum and fine aggregates @ 0.46cum, with super plastisicer @3lts confirming to IS9103-1999 Reaffirmed-2008 in open foundation complete as per drawing andtechincal specifications including cost of all materials, labour HOM curing, form works, scaffolding and centering complete as per specifications.(Pg No.222, It No.27.27)								
	Culverts		10	6.00	0.60	0.15	5.40		
	coping		20	6.00	0.60	0.10	7.20		
					TOTAL		**12.60**	5148.42	64870.09
	Basic Rate:	cum	4857.00						
	Area Weightage @ 6%		291.42						
	Total		5148.42						
5	KSRB 5.3-1:Providing and constructing granite /trap/basalt size stone masonry in foundation with cement mortar 1:6, stone hammered dressed in courses not less than 20cms hign, bond stones at two m apart in each course including cost of materials, labour, curing etc., complete as per specifications.(P-25. Item No.5.3) 5.6								

	Culvert		20	6.00	0.60	0.90	64.80		
					TOTAL		**64.80**	4871.76	315690.05
	Basic Rate:	cum	4596.00						
	Area Weightage @ 6%		275.76						
	Total		4871.76						
6	KSRB 15.1.4: Providing ruled pointing to coursed stone masonry with cement mortar 1:4, 20 mm deep, after raking joints to depth of 20mm nicely lining, including cost of materials, labour, curing complete as per specifications cement mortar 1:4. Page No. 115 / Item No. 15.4 / PWD SR 2018-19								
	Culvert		20	6.00		0.90	108.00		
					TOTAL		**108.00**	148.40	16027.20
	Basic Rate:	sqm	140.00						
	Area Weightage @ 6%		8.40						
	Total		148.40						
7	Providing and fixing 20 cm thick pre cast RCC covering slab using reinforced cement concrete M 20 mix with stone aggregate 20 mm and down size including centring shuttering reinforcement and bar bending machine mixed concrete laid in layers not exceeding 15 cm thick wellcompacted cost of all materials labour curing comlete as per specification (Data Rate)								
	Culvert		100	1.80	0.60		180.00		
					TOTAL		**180.00**	5418.00	975240.00
	Basic Rate:	sqm	5111.00						
	Area Weightage @ 6%		0.00						
	Total		5111.00						
8	Providing granite slabs of selected quality roughly dressed and fixed in cement mortar (1:6) including fixing curing etc., complete.7.5 cm thick (Pg No.27, Item No.5.31.1)								
	For BS Slab drain(damage portion vide item no 1)						**1083.24**		
	For new drains								
	5th B cross		2	25.00	1.35		67.50		
	5th C cross		2	25.00	1.35		67.50		
					TOTAL		**1218.24**	742.00	903934.08
	Basic Rate:	sqm	700.00						
	Area Weightage @ 6%		42.00						
	Total		742.00						

9	KSRB 5-14.1 : Providing and constructing load bearing wall with solid concrete blocks of size 400x100x200 mm having block density not lessthan 1800 kg/m3 and having a minimum average compressive strength 4.00 N/mm2 confirming to IS 2185 (Part) : 2005 and constructed with CM 1:4 , as per IS 2572:2005 including cost of all materials, labour charegs, scaffolding, curing complete as per specifications. KBS No.5.4 with all lead and lift , loading and unloading and allother incidental charges etc., complete as per specification and direction of the engineer-in-charge of the work.(Pg No.27, Item No.5.28)								
	For raising side walls of drain								
	4th main road		2	250.00	0.10		50.00		
	5th main road		2	250.00	0.10		50.00		
	main road		2	165.00	0.10		33.00		
	amruthnagara C sector								
	main road 1		2	163.00	0.10		32.60		
	5th cross		2	150.00	0.10		30.00		
	5th A cross		2	25.00	0.10		5.00		
	For new drains								
	5th B cross		2	25.00	0.10		5.00		
	5th C cross		2	25.00	0.10		5.00		
					TOTAL		**210.60**	859.66	181045.00
	Basic Rate:	Sqm	811.00						
	Area Weightage @ 6%		48.66						
	Total		859.66						
10	Providing granite slabs of selected quality roughly dressed and fixed in cement mortar (1:6) including fixing curing etc., complete10cms thick.(Pg No.27, Item No.5.31.2)								
	covering slab						**346.04**		
	For new drains								
	5th B cross		2	25.00	0.75		37.50		
	5th C cross		2	25.00	0.75		37.50		
					TOTAL		**421.04**	966.72	407023.00
	Basic Rate:	sqm	912.00						
	Area Weightage @ 6%		54.72						
	Total		966.72						
11	KSRB 5-8.1: Providing one line dressing to granite stone slabs/granite stone masonry as per specifications.KBS 5.1.13								
	4th main road		2	250.00	0.75		375.00		
	5th main road		2	250.00	0.75		375.00		
	main road		2	165.00	0.75		247.50		
	amruthnagara C sector								
	main road 1		2	163.00	0.75		244.50		
	5th cross		2	150.00	0.75		225.00		
	5th A cross		2	25.00	0.75		37.50		
	For new drains								
	5th B cross		2	25.00	0.75		37.50		
	5th C cross		2	25.00	0.75		37.50		
					TOTAL		**1579.50**	950.82	1501821.00
	Basic Rate:	sqm	897.00						
	Area Weightage @ 6%		53.82						
	Total		950.82						

12	Providing and fixing Pre cast solid concrete kerb stones made out of CC 1:2:4 of size ~~450x200x400~~ mm and finished with CM 1:3 plastering and finishing cutting etc., complete.Pg No. 27, Item No.5.29.1 450X150X500								
	4th main road		2	250.00			500.00		
	5th main road		2	250.00			500.00		
	main road		2	165.00			330.00		
	amruthnagara C sector								
	main road 1		2	163.00			326.00		
	5th cross		2	150.00			300.00		
	5th A cross		2	25.00			50.00		
	For new drains								
	5th B cross		2	25.00			50.00		
	5th C cross		2	25.00			50.00		
							2106.00		
			TOTAL(~~total~~ length/0.45)				**4680.00**	467.46	2187713.00
	Basic Rate:	Nos	441.00						
	Area Weightage @ 6%		26.46						
	Total		467.46						
13	KSRB 5-9.1:Providing and applying ready mix priming coat over ocncrete / masonry, / asbestos cement sheet / plastered surfaces includding preparing the surface after thorougly cleaning of oil, grease, dirt and other foreign matter and sand papering including cost of materials, labour compelte as per specifications. Page No. 124 / Item No. 15.80								
			4680.00		0.45		2106.00		
					TOTAL		**2106.00**	39.22	82598.00
	Basic Rate:	sqm	37.00						
	Area Weightage @ 6%		2.22						
	Total		39.22						
14	Providing and fixing MS Grating 260x260 mm(Page No.1X, Sl No.234, code No.0771)								
	For shoulder drians		410				410.00	84.75	
					TOTAL		**410.00**	89.84	36832.35
	Basic Rate:	Nos	84.75						
	Area Weightage @ 6%		5.09						
	Total		89.84						
15	KSRRB M100-1 Loading and unloading of stone boulder/stone aggregates/ sand/ kanker/ moorum. KSRRB M100-1:Placing tipper at loading point loading with front end loading, dumping turning for return trip, excluding time for haulage and return trip complete as per specification MORTH Chapter 1 (Page 136, item No. 17.1)								
					TOTAL		**872.90**	94.34	82349.00
	Basic Rate	cum	**57.00**						
	Rs. 2.50 Tonne Km.								
	Average Weight of earth 1.28 Tonne/Km.								
	For 10 Km								
	Rs.2.50X1.28TonneX10Km		**32.00**						
	Total		**89.00**						
	Add Area Weightage6%		**5.34**						
			94.34						

16	KSRRB M2900-2.1. Laying Reinforced cement concrete pipe NP2 / prestressed concrete pipe for culverts on first class bedding of granular material in single row including fixing collar with cement mortar 1:2 but excluding excavation, protection works, backfilling, concrete and masonry works in head walls and parapets complete as per specifications. MORTH Specification No. 2900 B. 1200 mm dia MORTH Specification No. 1000,2300 Page No. 255,								
			14	3.00	--	--	42.00		
					TOTAL		**42.00**	5976.28	**251003.76**
	Basic Rate:	mtr	5638.00						
	Area Weightage @ 6%		338.28						
	Total		5976.28						
17	Providing 100mm and down size nominal size. (Pg No.I.Item No.23)								
	For Pit		14	0.28		0.90	3.56		
	(3.14x0.6*0.6)/4	Cum			**TOTAL**		**3.56**	987.62	**3515.93**
18	Providing 40mm and down size nominal size (Pg No.II.Item No.25)								
	For Pit		14	0.28		0.40	1.58		
	(3.14x0.6*0.6)/4	Cum			**TOTAL**		**1.58**	1091.43	**1724.46**
19	Providing 20mm and down size nominal size (Pg No.II.Item No.28)								
	For Pit		14	0.28		0.40	1.58		
	(3.14x0.6*0.6)/4	Cum			**TOTAL**		**1.58**	1091.43	**1724.46**
20	Providing Fine aggrgate 2.36mm nominal size (Pg No.II.Item No.32)								
	For Pit		14	0.28		0.30	1.19		
	(3.14x0.6*0.6)/4	Cum			**TOTAL**		**1.19**	1054.29	**1254.61**
21	Providing and fixing MS Grating 260x260 mm(Page No.IX, Sl No.234, code								
			25					89.84	**2245.88**
	Basic Rate:	Nos	84.75						
	Area Weightage @ 6%		5.09						
	Total		89.84						
22						**Sub Total**			8917651.81
23					**Add 12% GST charges**				1070118.22
24					**Miscelleneous charges**				2229.97
25						**Total**			9990000.00

1)This is certified that the work spot comes under BBMP limits only. 0

2) The work spot is inspected by me

3) The items Provided in the Estimate are quite Essential

4)The rates are as per CSR of 2019-19 year of PWD Bangalore Circle.

Asst.Engineer
Ward no.7

Asst.Exe.Engineer
Kodigehalli Sub-division
B.B.M.P.

Executive Engineer
Byatrayanapura Division
B.B.M.P.

ADMINISTRATIVE APPROVAL

Accorded For Rs. 99.90 Lakhs

Head of A/c. P.3.442

Div. Ref. No. 95 Date. 17/01/20

AE

Technically sanctioned for Rs. 99,90,000/-

Rs in Words NINETY NINE THOUSAND X NINETY THOUSAND ONLY

Under P3445

Job Code No 007-19-00018

Registered as SE(Y)/TS/ 25 / 19-20 subject to conditions contained in enclosed memo No 25 / 19-20 Dated: 17/01/2020

17/01/2020

Improvements to drains of 4th main road of pampa extension to 5th main road of pampa extension in ward no.07. byatarayanapura.

Apply. N.O
AE(Ry)

Assistant Executive Engineer,
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.